

FORECAST FOR AUTOMATION DIVISION, FIELD ACTIVITIES, OSA  
ACTIVITIES FOR FY-1965 AND FY-1966

1. MISSION:

To provide Project Operations and the Satellite Operations Center, NRO, through electronic data processing methods, those usable products which will appreciably decrease the time of the preparatory phases of operations, greatly increase the planning flexibility, and provide display data to be used by competent authority in the decision making process.

The term "usable products" includes complete flight planning for OXCART and IDEALIST, ephemeris computations and plotting for satellites, command and control analysis and such other future programs as determined feasible and desirable.

2. FUNCTIONS AND OBJECTIVES:

a. The tasks for the first part (first six months FY'65) of this period will be to complete programs presently in formulation and continue support of operational requirements of the Satellite Operations Center (SOC).

b. The objectives for the latter part (last 18 months) of this period will be:

(1) Refine original programs to provide additional information or more detailed information formatted to the users requirements.

(2) Develop sophisticated command and control programs for satellite operations.

(3) Complete flight plan programs for OXCART to include considerations of all parameters, such as fuel consumption using varying profiles, emergency alternates, and minimum fuel requirements at selected points.

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(4) Refine plotter programs to provide the capability to plot target information, flight strip information and other pertinent data required by the SOC or the OXCART project.

(5) Continue study of future program requirements to support current and future operational projects.

3. CONCEPT OF OPERATIONS:

a. The concept of operations for the Automation Division encompasses the requirements for specified equipment, adequate space for personnel and equipment, and personnel manning consistent with good management principles considering total work load and required program completion dates. The IBM 7090 scientific computer with its associated peripheral equipment, operated by the Office of Computer Services (OCS), will be utilized for all program computations. In addition, the following equipment is required in this Division:

(1) One UNIVAC 1004 Processor

(2) One IBM 026 Card Punch

(3) One IBM 056 Verifier

(4) One Electronics Associates Inc. (EAI) Dataplotter.

(5) One Friden Teledata and Flexowriter

b. Electronic data processing equipment required  in support of the OXCART project include:

(1) One Electronics Associates Inc. (EAI) Dataplotter.

(2) One Friden Teledata and Flexowriter

c. Electronic data processing equipment required at the SOC include:

(1) One Electronics Associates Inc. (EAI) Dataplotter.

(2) One UNIVAC 1004 Processor.

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d. Miscellaneous EDP supplies and other office supplies will include:

- (1) Magnetic tape
- (2) Paper tape
- (3) IBM cards
- (4) 500' mylar roll
- (5) Plotter ink, paper and tape
- (6) Tab paper

e. The personnel manning for the Automation Division is predicated on forecast requirements as projected through coordination with the Operations Staff of the SOC and OSA. The division is composed of two branches. The Programs Branch will consist of a Digital Systems Analyst as Branch Chief and seven Digital Systems Programmers.

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f. The Automation Division will require a minimum of 1636 square feet of space. Of this amount, the machine room requires 500 square feet, 1056 square feet of office space is required for personnel, and 80 square feet for administrative files, etc.

#### 4. FUNDING ESTIMATES (PER FISCAL YEAR)

The funding required to support the concepts enumerated above is predicated on the assignment of  people, and the rental of all equipment in paragraphs 3.a., b., and c. above, except the three plotters which have been purchased during FY'64. The scientific computer and associated peripheral equipment will be funded by OCS.

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Personnel pay  
Equipment rental  
Maintenance contract for  
plotters  
EDP and office supplies  
Travel and TDY

Total -

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Distribution:

- #1 - AD/OSA
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